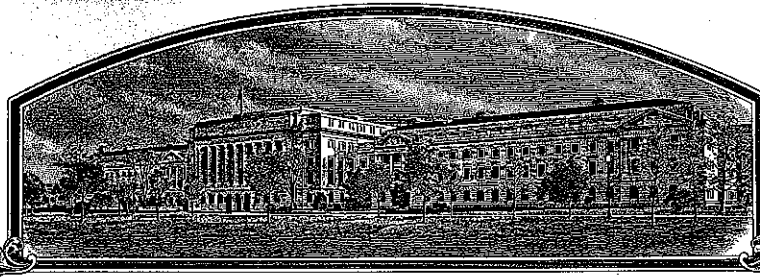


No.

200300072



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Advanta Seeds B. V.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED; OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE FOREGOING PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMERICAL GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

FESCUE, TALL

'Greystone'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this sixth day of February, in the year two thousand and seven.

Attest:

Q. M. Zula

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Johnston
Secretary of Agriculture

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER Advanta Seeds B.V.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME ATF705		3. VARIETY NAME Greystone	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) Dijkwelsestraat 70 NL - 4421 AJ Kapelle The Netherlands		5. TELEPHONE (include area code) +31 113 347 900		FOR OFFICIAL USE ONLY PVPO NUMBER 200300072 FILING DATE January 13, 2003	
		6. FAX (include area code) 552237 +31 113 330 110 (BT: 11/4/2006)			
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Incorporated		8. IF INCORPORATED, GIVE STATE OF INCORPORATION The Netherlands			
9. DATE OF INCORPORATION 12-3-1986		10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Kenneth Hignight C/O Advanta Pacific, LLC 33725 Columbus St SE Albany, OR 97322 USA		FILING AND EXAMINATION FEES: \$ 2,705.00 DATE January 13, 2003 CERTIFICATION FEE \$ 768.00 DATE 1/8/2007	
11. TELEPHONE (Include area code) (541) 967-8923		12. FAX (Include area code) (541) 967-8223		13. E-MAIL	
14. CROP KIND (Common Name) Tall Fescue		16. FAMILY NAME (Botanical) Poaceae		18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.	
15. GENUS AND SPECIES NAME OF CROP Festuca arundinacea		17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$3,652), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)		20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input checked="" type="checkbox"/> YES (If "yes", answer items 21 and 22 below) <input type="checkbox"/> NO (If "no", go to item 23) 21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, WHICH CLASSES? <input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED 22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. <input checked="" type="checkbox"/> FOUNDATION <input checked="" type="checkbox"/> REGISTERED <input checked="" type="checkbox"/> CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)			
23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)			
25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER Kenneth Hignight		SIGNATURE OF OWNER			
NAME (Please print or type) Kenneth Hignight		NAME (Please print or type)			
CAPACITY OR TITLE Director of Research		DATE 1-3-03 (BT: 11/6/2006)		CAPACITY OR TITLE Director of Research	

(See reverse for instructions and information collection burden statement)

Exhibit A:
Origin and Breeding History
Greystone (ATF705) Tall Fescue

1. Origin:

The tall fescue (*Festuca arundinacea*) cultivar 'Greystone' traces its origin to a seed source obtained from Rutgers University in 1988. This seed originated from half-sib progenies from 22 clones and selected from a nursery which contained 109 plants. These plants were maintained at 15 cm height without irrigation and low fertility. Parental germplasm originated from plants selected in New Jersey, Maryland, Connecticut, Washington D.C., Alabama, Georgia, Idaho, Ohio, South Carolina, North Carolina, Missouri, Tennessee and Mississippi. They were collected from Golf courses, lawns, pastures, parks, and other similar turfs between 1961 and 1976. Population improvement projects involved many cycles of phenotypic assortive mating each followed by single plant progeny trials maintained in stressful turf environments.

Breeding History:

- 1988: Seed obtained from Rutgers University was designated as the base population. A plant selection field was established in the fall of 1988.
- 1989: Plants were allowed to grow and observations were taken.
- 1990: Plants were allowed to grow and observations were taken.
- 1991: A 15 clone polycross group was formed before anthesis based on dwarf growth habit, dark foliage color and number of seed heads. Seed was harvested and a plant selection field of 2,000 plants was established.
- 1992: Off-type plants were rogued from the 2,000 plant block and the seed was harvested in bulk.
- 1993: In the fall a turf trial was sown with the University of Georgia; Griffin, GA.

- 1994: In the late summer survivors from the 1993 trial were removed, returned to Albany, OR for increase and designated ATF289.
- 1995: ATF289 was harvested in bulk.
- 1996: In the fall a turf trial was sown with the University of Georgia; Griffin, GA which included ATF289.
- 1997: In the late summer survivors from the 1996 trial were removed, returned to Albany, OR for increase and designated ATF504.
- 1998: ATF504 was harvested in bulk. A single plant nursery containing 1,140 plants was established of ATF504.
- 1999: Seventy four clones were selected from the single plant nursery before anthesis. The selections were based on crown density, genetic color, leaf texture, and freedom from disease. The 74 plants were then screened for the presence of the endophytic fungus (*Neotyphodium coenophilum*) and found to be 24% infected. The 74 clones were allowed to interpollinate. The 18 endophyte infected clones were harvested in bulk and designated ATF705. In the fall a breeder seed increase block was established of ATF705*.
- 2000: The breeder seed block was harvested in the fall in bulk and designated ATF705 breeder seed. A morphological nursery was established in the fall for Plant Variety Protection (PVP) measurements.

<ATF705> = 'Greystone'
(BT: 11/7/2006)

2. Breeder Seed Maintenance:

A breeder seed multiplication was planted in isolation in 1999 in Albany, OR. Seed was harvested in bulk in 2000 and is maintained in cold storage. Seed propagation is limited to three generations, one each of foundation, registered, and certified.

3. Stability and Uniformity:

Greystone has been a stable uniform cultivar over two generations. No off-type or variant plants have been observed during the multiplication or reproduction. During the breeder seed multiplication 1% of the plants were removed to improve the uniformity of the population. These types were not observed during the subsequent generations. Turf plots of Greystone have been uniform.

Exhibit A (addendum): Statement of Stability and Uniformity for tall fescue Greystone

Greystone has been a stable uniform cultivar over two generations. No off-type or variant plants have been observed during the multiplication or reproduction. During the breeder seed multiplication 1% of the plants were removed to improve the uniformity of the population. The plants that were removed showed less vigor and had poor plant health. It is not known if the lack of vigor was due to environmental factors, genetic factors, or an environment by genetic interaction. These types were not observed during the subsequent generations. Turf plots of Greystone have been uniform and stable.

Exhibit B:**Novelty Statement of Greystone (ATF705) Tall Fescue**

The following summary outlines the distinctive characteristics of Greystone. The novelty of Greystone is based on the unique combination of these characteristics. Greystone is most similar to Rebel II, but may be differentiated by using the following criteria:

1. Greystone has a heading date later than Rebel II (tables 1A, 1B).
2. The genetic color of Greystone is darker compared to Rebel II (tables 1A, 1B).
3. Greystone has a mature plant height at least 16 cm shorter than Rebel II (tables 1A, 1B).
4. Greystone has a shorter panicle compared to Rebel II (tables 1A, 1B).
5. The flag leaf characteristics for Greystone; height, length, width, sheath length and internode length are all shorter compared to Rebel II (tables 1A, 1B).
6. The leaf blade characteristics for Greystone; height, length, width and sheath length are all shorter compared to Rebel II (tables 1A, 1B).
7. The lengths of the lemma, palea and awn are all shorter for Greystone than Rebel II (tables 2A, 2B).
8. Greystone produces more plants with purple glumes compared to Rebel II (tables 3A, 3B).
9. Rebel II produces no plants with four or more branches of the lower most whorl (tables 3A, 3B).

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, Clearance Officer, OIRM, AG Box 7630, Jamie L. Whitten Building, Washington, D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your letter. Under the PRA of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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**U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY PROGRAM
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705**

**EXHIBIT C
(TALL & MEADOW FESCUES)**

**OBJECTIVE DESCRIPTION OF VARIETY
TALL & MEADOW FESCUES
(*Festuca* spp.)**

NAME OF APPLICANT(S) Advanta Seeds Pacific B.V. (BT: 8/8/2006)	TEMPORARY DESIGNATION ATF705	VARIETY NAME Greystone
--	---------------------------------	---------------------------

ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code) 33725 Columbus St. S.E. Dijkwelsetraat 70 Albany, OR NL-4421 AJ Kapelle 97322 The Netherlands (BT: 8/8/2006)	FOR OFFICIAL USE ONLY PVPO NUMBER 200300072
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Place the appropriate number that describes the varietal characteristics of this variety in the boxes below. Use leading zeroes when necessary (e.g., 089). Characteristics described, including numerical measurements, should represent those that are typical for the variety. Measured data should be for SPACED PLANTS. Royal Horticultural Society or any recognized color fan may be used to determine plant colors. Characteristics marked with an asterisk * are characteristics which should be recorded.

* 1. SPECIES: (With comparison varieties, use varieties within the species of the application variety)

6 1 = *F. arundinacea* (Tall)

Turf Types

1 = Kentucky 31	2 = Rebel	3 = Olympic	4 = Bonanza	5 = Arid	6 = Rebel II
7 = Shortstop	8 = Silverado	9 = Rebel Jr.	10 = Mini Mustang	11 = Crewcut	12 = Bonsai

Forage Types

20 = Kentucky 31	21 = Martin	22 = Forager	23 = Mozark
24 = Kenhy	25 = AU Triumph	26 = Fawn	27 = Cajun

2 2 = *F. pratensis* (Meadow)

30 = Admira	31 = Beaumont	32 = Comtessa	33 = Ensign	34 = Trader
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* 2. CYTOLOGY:

42 Chromosome Number

3. ADAPTATION: (0 = Not Tested; 1 = Not Adapted; 2 = Adapted)

2 Transition Zone 2 West 2 Northeast Other (Specify): _____

* 4. MATURITY: (Date First Headed, 10% of Panicle Emergence)

6 Maturity Class 1 = Very early () 2 = AU Triumph 3 = Early (Fawn) 4 = K31, Kenhy 5 = Medium (Rebel)

4. MATURITY: (continued)

200300072

6 = Bonanza

7 = Late (Silverado)

8 = ()

9 = Very late

Date Headed 39.00 (days after April 1,)

Location Albany, OR

 Days earlier than
 Maturity same as
4.67 Days later than 6

} Comparison Variety

* 5. MATURE PLANT HEIGHT CM: (Average of 100 culms from crown to top of panicle, if panicle is nodding, straighten)

* INTERNODE LENGTH CM: (First internode subtending the flag leaf)

96.73 cm Height

15.93 cm InternodeLength

16.50 cm Shorter than 6
 Height same as
 cm Taller than

} Comparison Variety

4.34 cm Shorter than 6
 Length same as
 cm Longer than

} Comparison Variety

* HEIGHT AT EAR EMERGENCE CM: (Flag leaf height from crown to flag leaf node)

42.37 cm Height

13.83 cm Shorter than 6
 Height same as
 cm Taller than

} Comparison Variety

* 6. GROWTH HABIT: (Mature Plants)

3 1 = Prostrate ()

3 = Semiprostrate ()

5 = Horizontal ()

7 = Semierect (Rebel)

9 = Erect (Mini Mustang)

* 7. RHIZOMES (Psuedo):

 mm Length

1 1 = Absent ()

2 = Rare (Rebel)

3 = Common ()

* 8. LEAF BLADE: (Tiller leaves/ turf color)

* 6 Color: 1 = Light green () 3 = Medium light green () 5 = Green ()

7 = Medium dark green () 9 = Very dark green ()

5 Specify rating of comparison variety

* 1 Anthocyanin: 1 = Absent () 9 = Present ()

* 1 Basal Hairs: 1 = Absent () 9 = Present ()

* 1 Margins: 1 = Smooth () 5 = Semi-rough () 9 = Rough ()

8. LEAF BLADE: (continued)

200300072

*_6_ Width Class: 1 = Very coarse () 3 = Coarse () 5 = Medium ()

7 = Fine () 9 = Very Fine ()

* TILLER LEAF LENGTH CM: (First leaf subtending the flag leaf)

* TILLER LEAF WIDTH MM:

41.20 cm Tiller Leaf Length

8.70 mm Tiller Leaf Width

7.83 cm Shorter than _6_

0.95_ mm Narrower than _6_

Length same as _

Width same as _

_ _ _ cm Taller than _

_ _ _ mm Longer than _

Comparison Variety

Comparison Variety

FLAG LEAF LENGTH CM:

FLAG LEAF WIDTH MM:

39.23 cm Flag Leaf Length

6.62 mm Flag Leaf Width

7.34 cm Shorter than _6_

1.30 mm Narrower than _6_

Length same as _

Width same as _

_ _ _ cm Longer than _

_ _ _ mm Wider than _

Comparison Variety

Comparison Variety

* 9. LEAF SHEATH: (Basal Portion)

*_1_ Anthocyanin (seedling): 1 = Absent (K31)

9 = Present ()

*_9_ Auricle Hairiness: 1 = Absent ()

9 = Present ()

* 10. PANICLE: (At seed maturity except where noted.)

*_5_ Shape: 1 = Narrow-tapering ()

5 = Ovate ()

7 = Oblong ()

9 = Other (specify)

*_7_ Type: 1 = Compact (appressed)

5 = Intermediate ()

7 = Open ()

9 = Other (specify)

*_7_ Orientation: 1 = Nodding ()

9 = Erect ()

*_1_ Branch Pubescence: 1 = Glabrous ()

9 = Pubescent ()

*_1_ Anther Color (At anthesis): 1 = Yellowish Green

2 = Green

3 = Bluish Green

4 = Purplish

5 = Reddish

6 = Other (Specify)

*_1_ Glume Color (At anthesis): 1 = Yellowish Green

2 = Green

3 = Bluish Green

4 = Purplish

5 = Reddish

6 = Other (Specify)

*_77.97_ cm Panicle Length (from base to tip, if nodding, straighten; after anthesis)

7.90 cm Shorter than _6_

Length same as _

_ _ _ cm Longer than _

Comparison Variety

___ mg Less than	___	} Comparison Variety
Weight same as	___	
___ 112 mg More than	___ 6	

0.28 mm Shorter than _6_
 Length same as ____
 . mm Longer than ____

} Comparison Variety

____ mm Narrower than ____
 Width same as ____ 6 ____
 ____ mm Wider than ____

} Comparison Variety

0.27 mm Shorter than _6_
 Length same as ____
 ____ mm Longer than ____

} Comparison Variety

Other Nematode _____

10.

___ Winter Stress 1 = Susceptible () 5 = Tolerant () 9 = Resistant ()

14. GIVE VARIETY OR VARIETIES THAT MOST CLOSELY RESEMBLE THE APPLICATION VARIETY. For the following characteristics, indicate the degree of resemblance with the following scale:

1 = Application variety is less than comparison variety 2 = Same as 3 = More than, better, greater, darker, etc.

Character	Varieties	Rating	Character	Varieties	Rating
Leaf Width	Rebel II	1	Leaf Color	Rebel II	3
Panicle Color	Rebel II	2	Panicle Shape	Rebel II	2
Seed Size	Rebel II	3	Cold Injury	Rebel II	2
Winter Color	Rebel II	3	Heat	Rebel II	3
Disease	Rebel II	3			

* 15. EXPERIMENTAL: Give a brief summary of the experimental design utilized to collect the data used on this form. Cultural conditions, number of plants measured and plant spacing must be specified.

A morphological nursery designated 00PVPFA was established in September 2000, in Albany, Oregon. Experimental design consisted of 18 entries; 3 replications per entry; 20 plants per replication; for a total of 60 plants per entry. KY-31, Rebel II, Regiment and Tulsa were used as standards. Plants were established on 2.5 foot centers with a skip row between replications and between entries.

The nursery received 30 pounds of nitrogen per acre rate following establishment and 50 pounds of nitrogen per acre per year in 2001 and 2002. The fertilizer source was 15 - 15 - 15 and was applied as a split application with ½ applied in the spring and ½ in the autumn. The nursery was sprayed twice each spring, 3 weeks between applications, with Tilt (2oz/acre rate), to prevent stem rust. One pound of Karmex per acre rate was applied during the late summer to prevent emergence of volunteer seedlings.

Data was analyzed using analysis of variance for a randomized complete block design. Means were calculated for each replication and then analyzed.

Exhibit D:
Additional Description
Greystone (ATF705) Tall Fescue

Greystone is an improved turf-type tall fescue. It has a shorter growth habit (tables 1A, 1B) than previously released tall fescue cultivars, such as KY-31 and Rebel II. Greystone has a medium-late maturity with a heading date later than KY-31 and Rebel II (tables 1A, 1B). Greystone exhibits a darker genetic color compared to KY-31, Rebel II, Tulsa and Regiment (tables 1A, 1B). The leaf blade length of Greystone is shorter compared to Regiment (tables 1A, 1B). Greystone has a shorter leaf blade height than Tulsa (tables 1A, 1B). The lengths of the lemma, palea and awn are all shorter for Greystone compared to Rebel II and Regiment (tables 2A, 2B). Greystone produces more purple pigmentation in the panicles compared to KY-31, Tulsa and Regiment (tables 3A, 3B). The expression of purple pigmentation in the glumes is more frequent in Greystone compared to KY-31 and Tulsa (tables 3A, 3B). Greystone has a higher seed weight than Rebel II, Tulsa and Regiment; but a lower weight than KY-31 (tables 3A, 3B). The dark pigmentation of the nodes is more frequent in Greystone compared to Rebel II, Tulsa, and Regiment; however KY-31 has a higher frequency than Greystone (tables 4A, 4B). Greystone exhibits a significant improvement over Tulsa and Regiment (table 5) for turf quality, turf density and percent turf cover during repeated dry-downs over a two year period.

Table 1A

2001 Morphological Data

Cultivar	Heading Date (days after April 1)	Anthesis Date (days after April 1)	Genetic Color	Mature Plant Height (cm)	Plant Width (cm)	Panicle Length (cm)	Flag Leaf Length (cm)	Flag Leaf Width (mm)	Flag Leaf Height (cm)	Flag Leaf Sheath Length (cm)	Flag Leaf Internode Length (cm)	Leaf Blade Length (cm)	Leaf Blade Width (mm)	Leaf Blade Height (cm)	Leaf Sheath Length (cm)
Greystone AUF705	39.00	61.67	4.97	96.73	17.50	77.97	39.23	6.62	42.37	23.10	15.93	29.50	8.70	14.60	12.00
KY-31	30.67	59.67	3.17	125.73	18.40	91.93	50.53	8.58	63.83	30.80	23.20	43.13	10.13	27.37	17.47
Rebel II	34.33	61.00	3.68	113.23	22.13	85.87	46.57	7.92	56.20	28.03	20.27	38.37	9.65	22.33	16.90
Tulsa	39.33	63.33	4.35	100.80	18.67	77.17	40.97	7.00	45.97	23.70	17.60	33.87	8.65	18.60	14.17
Regiment	35.67	62.00	4.25	99.37	19.00	78.67	41.97	7.63	42.87	22.50	15.40	34.27	9.15	15.77	12.97
LSD (.05)	1.95	1.37	0.36	6.90	1.68	4.89	2.92	0.94	4.50	2.00	1.77	2.89	0.79	2.38	1.55
C.V.	3.62	1.58	5.27	5.58	6.96	5.00	5.77	10.18	8.03	6.58	8.48	6.89	6.67	11.28	9.17

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.

■ Cultivar under evaluation.

■ Significant difference over two years one location.

■ Significant difference over one year one location.

Table 1B
2002 Morphological Data

Cultivar	Heading Date (days after April 1)	Anthesis Date (days after April 1)	Genetic Color	Mature Plant Height (cm)	Plant Width (cm)	Panicle Length (cm)	Flag Leaf Length (cm)	Flag Leaf Width (mm)	Flag Leaf Height (cm)	Flag Leaf Sheath Length (cm)	Flag Leaf Internode Length (cm)	Leaf Blade Length (cm)	Leaf Blade Width (mm)	Leaf Blade Height (cm)	Leaf Sheath Length (cm)
GrayStone AT-7052	57.33	63.00	5.40	113.43	25.67	76.77	45.33	6.07	64.87	27.63	26.53	41.20	7.30	29.47	16.33
KY-31	42.00	58.00	3.38	150.07	24.60	93.03	57.10	7.47	92.70	35.67	32.03	54.03	9.85	49.90	22.83
Rebel II	50.67	62.00	4.32	134.97	24.90	83.40	51.30	6.80	81.80	32.27	31.23	49.03	8.50	42.70	19.90
Tulsa	58.67	64.00	5.13	113.97	24.73	73.83	43.73	6.03	66.13	26.70	26.03	41.27	7.60	33.53	16.77
Regiment	55.33	62.67	4.70	120.43	24.93	79.40	47.83	6.67	69.57	27.90	27.37	45.47	7.57	32.80	17.57
LSD (.05)	3.21	1.42	0.24	5.03	1.16	4.66	2.54	0.61	3.67	1.14	1.45	2.44	0.65	2.79	0.88
C.V. (0.28/0.200)	4.13	1.62	3.33	3.24	3.40	4.60	4.25	7.02	4.09	3.12	4.10	4.31	6.07	6.38	3.87

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.

■ Cultivar under evaluation.

■ Significant difference over two years one location.

■ Significant difference over one year one location.

Table 2A 2001 Laboratory Morphological Data

Cultivar	Lemna Length (mm)	Lemna Width (mm)	Lemna Awn Length (mm)	Palae Length (mm)	Palae Width (mm)	Glume Length (mm)	Floras per Spikelet	Spikelet Length (mm)	Length of Longest Whorl (mm)	Distance Between Lower Most Whorls (mm)	Number of Spikelets on the Longest Whorl	Spikelets per Panicle	Length of Spike From Lower Most Whorl to Tip (mm)
Greystone ATF/057	5.47	1.47	1.97	6.48	1.41	4.91	7.17	12.50	109.40	59.17	18.42	99.00	22.63
KY-31	6.16	1.56	2.15	7.28	1.49	5.77	6.77	13.80	115.03	61.87	15.10	110.00	27.20
Rebel II	5.75	1.49	2.24	6.99	1.40	5.11	5.80	12.30	100.60	58.53	15.00	101.00	24.33
Tulsa	5.62	1.44	2.11	6.52	1.34	5.05	6.77	12.30	102.60	56.53	16.82	100.67	23.40
Regiment	5.96	1.53	2.29	6.96	1.44	5.16	6.47	13.13	114.27	60.73	16.07	92.33	24.50
LSD (0.05)	0.27	0.08	0.19	0.21	0.08	0.25	0.75	0.89	14.06	5.72	2.69	9.92	2.09
C.V.	3.53	3.66	6.55	2.26	4.00	3.62	8.13	5.13	10.51	7.76	11.99	7.65	7.04

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.

■ Cultivar under evaluation.

■ Significant difference over two years one location.

■ Significant difference over one year one location.

Table 2B

2002 Laboratory Morphological Data

Cultivar	Lemna Length (mm)	Lemna Width (mm)	Lemna Awn Length (mm)	Palea Length (mm)	Palea Width (mm)	Glume Length (mm)	Florals per Spikelet	Spikelet Length (mm)	Length of Longest Whorl (mm)	Distance Between Lower Most Whorls (mm)	Number of Spikelets on the Longest Whorl	Spikelets per Panicle	Length of Spike From Lower Most Whorl to Tip (mm)
Graystone (ATF705)	6.23	1.30	0.86	6.09	1.11	4.66	5.15	10.63	87.37	55.57	15.90	92.00	23.40
KY-31	7.23	1.37	0.89	6.98	1.23	5.23	4.88	11.43	98.40	64.57	15.80	114.67	30.13
Rebel II	6.92	1.43	1.34	6.68	1.26	5.12	4.93	11.57	100.43	61.90	16.08	102.67	27.00
Tulsa	6.61	1.33	0.80	6.23	1.11	4.75	4.98	10.40	86.37	52.33	16.08	96.00	23.33
Regiment	6.70	1.37	1.04	6.53	1.17	4.80	4.77	10.97	92.33	56.73	14.02	87.33	24.60
LSD ₀₅	0.31	0.09	0.21	0.20	0.06	0.31	0.55	0.64	11.42	5.58	2.81	10.71	2.14
C.V.	3.42	5.07	15.21	2.28	3.87	4.66	8.02	4.30	9.95	7.65	13.49	8.42	6.75

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.

Cultivar under evaluation.

Significant difference over two years one location.

Significant difference over one year one location.

Table 3A 2001 Additional Morphological Measurements of the Panicle

Cultivar	Anther Color % Purple	Panicle Color % Purple	Lemma Hairs % Present	Palea Hairs % Present	LemmaAWN % Present	Glume Color % Purple	Panicle Orientation % Nodding	Panicle Shape % Ovate	Panicle Type % Open	Branch Lower Whorl =1	Branch Lower Whorl =2	Branch Lower Whorl =3	Branch Lower Whorl =4	Seed Weight mg/1,000 Seeds
Greystone LA7057	0	23	98	100	100	3	0	88	12	25	25	73	2	2655
KY-31	0	7	97	100	100	0	12	82	18	10	10	82	8	3345
Rebel II	0	15	98	98	100	0	10	83	17	13	13	87	0	2543
Tulsa	0	18	97	100	100	3	0	70	30	25	25	73	2	2395
Regiment	2	10	97	100	100	2	3	85	15	27	27	72	2	2195

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.

■ Cultivar under evaluation.

(81: 8/12/06)

Table 3B 2002 Additional Morphological Measurements of the Panicle

Cultivar	Anther Color % Purple	Panicle Color % Purple	Lemma Hairs % Present	Palea Hairs % Present	LemmaAWN % Present	Glume Color % Purple	Panicle Orientation % Nodding	Panicle Shape % Ovate	Panicle Type % Open	Branch Lower Whorl =1	Branch Lower Whorl =2	Branch Lower Whorl =3	Branch Lower Whorl =4	Seed Weight mg/1,000 Seeds
Greystone LA7057	3	32	98	100	100	13	0	17	83	30	65	3	2	2704
KY-31	5	13	97	100	100	3	0	2	98	23	73	3	0	3348
Rebel II	5	30	98	100	100	10	0	23	77	28	72	0	0	2562
Tulsa	2	22	98	100	100	5	0	25	75	43	57	0	0	2369
Regiment	2	23	93	100	100	12	0	23	77	41	57	2	0	2259

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.

■ Cultivar under evaluation.

(81: 8/14/06)

Table 4A 2001 Additional Morphological Measurements of the Leaf Blade

Cultivar	Growth Habit at Anthesis % Prostrate	Growth Habit at Anthesis % Semi- Prostrate	Growth Habit at Anthesis % Erect	Anthocyanin Present in the Leaf Blade % Purple	Leaf Blade Margin Roughness to the Touch % Smooth	Leaf Blade Margin Roughness to the Touch % Semi-Rough	Leaf Blade Margin Roughness to the Touch % Rough	Leaf Blade Margin Hairs % Present	Leaf Sheath Auricle Hairs % Present	Rhizomes % Present	Node Color % Distinct
Greystone <ATP/05>	15	70	15	0	73	15	12	90	82	0	25
KY-31	40	50	10	0	70	15	15	80	92	0	48
Rebel II	10	77	13	0	83	12	5	87	85	0	13
Tulsa	10	78	12	0	68	18	13	85	87	0	15
Regiment	7	80	13	0	83	12	5	78	83	0	12

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.

■ Cultivar under evaluation.

(GT-8/17/06)

Table 4B 2002 Additional Morphological Measurements of the Leaf Blade

Cultivar	Growth Habit at Anthesis % Prostrate	Growth Habit at Anthesis % Semi- Prostrate	Growth Habit at Anthesis % Erect	Anthocyanin Present in the Leaf Blade % Purple	Leaf Blade Margin Roughness to the Touch % Smooth	Leaf Blade Margin Roughness to the Touch % Semi-Rough	Leaf Blade Margin Roughness to the Touch % Rough	Leaf Blade Margin Hairs % Present	Leaf Sheath Auricle Hairs % Present	Rhizomes % Present	Node Color % Distinct
Greystone <ATP/05>	15	70	15	0	73	15	12	85	92	0	30
KY-31	40	50	10	0	75	13	12	80	77	0	40
Rebel II	10	77	13	0	77	13	10	87	92	0	23
Tulsa	10	78	12	0	56	27	17	85	88	0	25
Regiment	7	80	13	0	58	22	20	87	95	0	23

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.

■ Cultivar under evaluation.

(GT-8/17/06)

1999 Tall Fescue Drought Trial
University of Georgia - Griffin, GA
(Dry Down Data - Averages For 2 Years of Data)

Table 5

Cultivar	Turf Quality	Turf Density	% Turf Cover	Turf Color
Tulsa	5.7	6.2	84	6.3
Regiment	5.6	5.9	79	6.5
Greystone (ST: 8/13/2006) <ATF705>	6.3	6.7	90	6.6
ATF706	5.9	6.5	90	6.2
Plantation	6.0	6.5	85	6.7
LSD (.05)	0.45	0.41	5.90	0.36
(ST: 8/13/2006) C.V.	10.00	10.00	7.00	9.00

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.

■ Cultivar under evaluation.

■ Significant difference over two years one location.

■ Significant difference over one year one location.

Data provide by Dr. R.R. Duncan; University of Georgia; Griffin, GA.

Note - Turf coverage is 24 months after establishment and taken in mid-September 2001. The visual quality rating is the average of 17 ratings over both growing seasons. Grasses were mowed at 2.0 inches and subjected to seven repeated dry-down periods over the summers of 2000 and 2001. No supplemental irrigation was applied in 2001 except in late June. Each dry-down resulted in significant leaf firing (% turf).

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) Advanta Seeds B. V.	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER ATF705	3. VARIETY NAME Greystone
4. ADDRESS (Street and No., or R.F.D. No., City, State, and Zip, and Country) Dijkwelsestraat 70 NL - 4421 AJ Kapelle The Netherlands (ST: 11/7/2006)	5. TELEPHONE (Include area code) +31 113 347 900	6. FAX (Include area code) 552237 + 31 113 347 900 (ST: 9/8/06)
7. PVPO NUMBER 200300072		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain.

☒ YES☐ NO

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country.

the Netherlands

☐ YES☒ NO

10. Is the applicant the original owner?

If no, please answer one of the following:☒ YES☐ NO

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐ YES☐ NO

If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐ YES☒ NO

If no, give name of country the Netherlands

11. Additional explanation on ownership (If needed, use the reverse for extra space):

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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